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REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

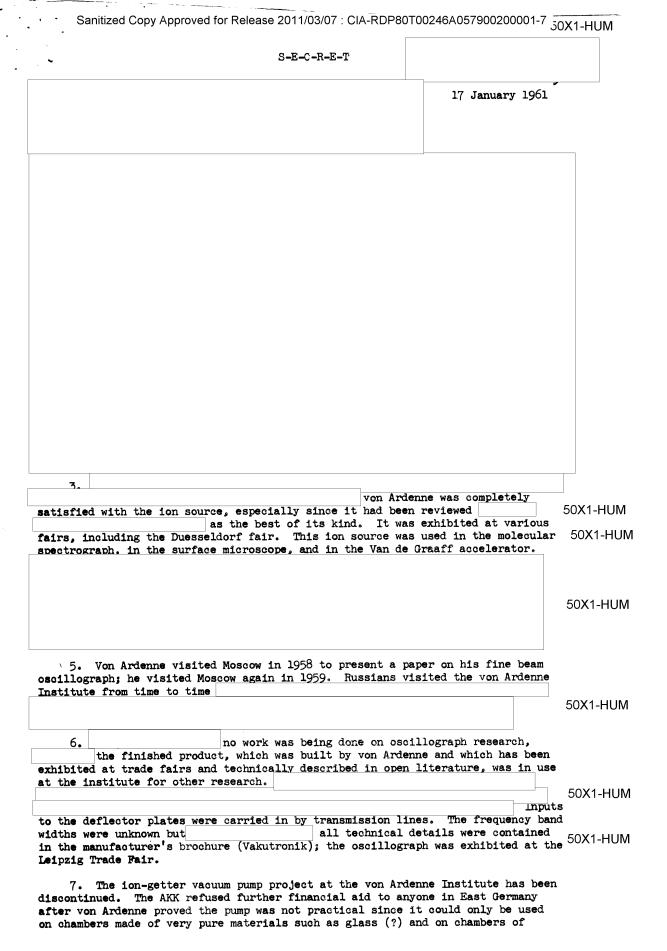
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BJECT	•	DATE DISTR.	8 MAR 1961	50V1 LILIN
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	Physics of the Manfred von Ardenne	NO. PAGES 1		
	Research Institute, Dresden-Weisser Hirso	h Peredences	RD	
	Fragmentary into on equipment ion source	ALI ERENCES		San
E OF	os cillograph, vacuum pump, mass separa	THE COURT CON	1106 (1911)	50X1-HUN
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very small size. Special projects that can be satisfied by these factors suse the pump. Most of the normal vacuum pumps used by von Ardenne's Institute are made by Zeiss, Jena. During the last trade fair at Leipzig von Ardenne a large (capacity unknown) vacuum pump exhibited by the Russians. He bough and subsequently used it to pump the vacuum furnace at the von Ardenne Institute.	oute saw it it itute
down to about 10 -3 or 10 -4 Torr. The furnace, which was about one cubic in size, was drawn down to its operating vacuum of 10 -5 Torr	meter 50X1-HUIVI
the furnace operated at 10 -4 Torr; this discrepency was not re by other pumps using liquid air to cool chamber outlets. This method could	l get 50X1-HUM
other vacuum chambers down to 10 -7 to 10 -8 Torr. The incident of the Ruspump is the only case known to Subject of aid from the Soviets. The	ssian
Soviets, however, were always using developments of the von Ardenne Institu	ite.
The director (name unknown) of the Leybold factory in Cologne visited von Ardenne at his institute once or twice.	50X1-HUM
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known usage of this furnace was in connection with Prof. Brunolf Baade's visite institute when he left an order for some alloy of steel. After Baade is this material, four or five similar furnaces were ordered from the Hochvaku Institute in Dresden-Weisser Hirsch, apparently for use by the aircraft ind The von Ardenne Institute had a metallurgist to do research work on the element of their air coolant to provide a lower and/or faster vacuum condition.	received num dustry. ectron
8. The mass separator, which was being built under von Ardenne's dire by the Vakutronik manufacturing company in Dresden, was exactly like the or Ardenne built in Russia and was to be installed at the Central Institute of Physics. it was to be an isotope separator and would occupy space of about eighty cubic meters.	ne von f Nuclear
	nths samples 50X1-HUM ting of vo:50X1-HUM
10. No cosmic ray research was done at the von Ardenne Institute.	50X1-HUM

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